DT03 Rec'd PCT/PT0

PTO-1390 (Rev. 12-2004)

Approved for use through 3/31/2007. OMB 0651-0021

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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| TRANSMITTAL LETTER TO THE UNITED STATES |
|---|
| DESIGNATED/ELECTED OFFICE (DO/EO/US) |
| CÓNCERNING A SUBMISSION UNDER 35 U.S.C. 371 |

ATTORNEY'S DOCKET NUMBER 7024-561

| COI | NCERNING A SUBMISSIO | U.S. APPEICATION NO. 4 If 190 vn, see 37 CFR 1.5) | | |
|-------------|--|---|---|--|
| | S2003/020226 | INTERN 30 June 2 | IATIONAL FILING DATE 2003 | PRIORITY DATE CLAIMED 28 June 2002 |
| | INVENTION JETIC NANOMATERIALS AND | METHODS | EOD DETECTION OF | BIOLOGICAL MATERIALS |
| APPLICA | NT(S) FOR DO/EO/US LEE; Ronald P. ANDRES | METTODS | FOR DETECTION OF | BIOLOGICAL WATERIALS |
| | | ates Designa | ated/Elected Office (DO/EC | /US) the following items and other information: |
| 1. X | This is a FIRST submission of items co | nceming a su | bmission under 35 U.S.C. 371 | · |
| 2. | This is a SECOND or SUBSEQUENT s | ubmission of i | items concerning a submission | n under 35 U.S.C. 371. |
| 3. | This is an express request to begin nati (5), (6), (9) and (21) indicated below. | onal examina | tion procedures (35 U.S.C. 37 | 1(f)). The submission must include items |
| 4. | The US has been elected (Article 31). | | | |
| 5. | A copy of the International Application | n as filed (35 t | J.S.C. 371(c)(2)) | |
| · · | a. is attached hereto (required | only if not co | mmunicated by the Internation | al Bureau). |
| | b. has been communicated by | the Internation | onal Bureau. | |
| | c. x is not required, as the appli | cation was file | ed in the United States Receivi | ng Office (RO/US). |
| 6. | An English language translation of the | e Internationa | Application as filed (35 U.S.C | 3. 371(c)(2)). |
| | a. is attached hereto. | | | |
| | b. has been previously submit | tted under 35 | U.S.C. 154(d)(4). | |
| 7. X | Amendments to the claims of the Inte | rnational App | lication under PCT Article 19 (| 35 U.S.C. 371(c)(3)) |
| | a. are attached hereto (requi | red only if not | communicated by the Internat | ional Bureau). |
| | b. have been communicated | by the Interna | ational Bureau. | |
| | c. have not been made; how | ever, the time | limit for making such amendm | nents has NOT expired. |
| | d. have not been made and v | will not be mad | de. | |
| 8. 🔲 | An English language translation of the | e amendmen | ts to the claims under PCT Art | icle 19 (35 U.S.C. 371(c)(3)). |
| 9. 🗶 | An oath or declaration of the inventor | (s) (35 U.S.C. | 371(c)(4)). (Unsigned) | |
| 10. | An English language translation of the Article 36 (35 U.S.C. 371(c)(5)). | e annexes of t | the International Preliminary E | xamination Report under PCT |
| Items | s 11 to 20 below concern document(s |) or informat | ion included: | |
| 11. 🔲 | An Information Disclosure Statement | under 37 CFF | R 1.97 and 1.98. | |
| 12. | An assignment document for recording | g. A separate | cover sheet in compliance with | th 37 CFR 3.28 and 3.31 is included. |
| 13. | A preliminary amendment. | | 1 | - 1' of a sa |
| 14. | An Application Data Sheet under 37 (| CFR 1.76. | WHEN re | Tocalar_of power. |
| 15. | A substitute specification. | | | / |
| 16. | A power of attorney and/or change of | address lette | r. | |
| 17. | A computer-readable form of the sequ | uence listing in | n accordance with PCT Rule 1 | 3ter.2 and 37 CFR 1.821- 1.825. |
| 18. | A second copy of the published Intern | national Applic | cation under 35 U.S.C. 154(d)(| 4). |
| 19. | A second copy of the English language | ge translation | | A Property of the Control of the Con |
| 20. | Other items or information: | | | V334087976US Date of Deposit: 22 December 200 |
| | Request; onse to Invitation to Furnish Nuc | cleotide; | States Postal Service "Ex 37 CFR §1.10 on the date | press Mail Post Office to Addressee" service under e indicated above and is addressed to MAIL STOP atents. PO Box 1450. Alexandria, VA 22313-1450. |

C. International Publication WO 2004/003508 A2 and A3;

D. Forms PCT/IB/304 and 308.

Signature of person mailing paper or fee

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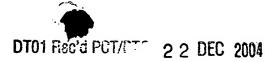
PTO-1390 (Rev. 12-2004)

for use through 3/31/2007. OMB 0651-0021 Under the Paperwork Reduction A U.S. Patent and Trade 35, no persons are required to respond to a collection of information unless it displays a valid OMB control number. APPLICATION NO. (if known, see 37 CFR 1.5) INTERNATIONAL APPLICATION NO. ATTORNEY'S DOCKET NUMBER PCT/US2003/020226 7024-561 The following fees are submitted: a) Basic national fee......\$300.00 Applicant use Office use only 300.00 b) Examination fee.....\$200.00 200.00 500.00 TOTAL OF ABOVE CALCULATIONS = Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence \$ 1000.00 listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof. PRICE YALLIE CCCLENTERALT Total Sheets Extra sheets Number of each additional 50 or fraction DEPOSET ACCCLENT RATE thereof (round up to a whole number) - 100 = 97 /50 =-0x \$250.00 \$ -0-Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)). ^{\$} 130.00 **CLAIMS** NUMBER FILED NUMBER EXTRA RATE Total claims. 52 - 20 = 32 \$50.00 \$ 1600.00 Independent claims 4 - 3 = 1 \$200.00 200.00 MULTIPLE DEPENDENT CLAIM(S) (if applicable) \$360.00 -0-TOTAL OF ABOVE CALCULATIONS = Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced \$2930.00 X 1465.00 Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest \$ 1400.00 claimed priority date (37 CFR 1.492(f)). TOTAL NATIONAL FEE = Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.23, 3.31). \$40.00 per property

| Adjustment flates 07/29/2005 | WALVARAD | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12730/2004 | 12 TOTAL FEES OF TELES OF E \$ 1465.00 Amount to be refunded: Amount to be charged A check in the amount of \$ _ to cover the above fees is enclosed. Please charge my Deposit Account No. in the amount of \$ ____ A duplicate copy of this sheet is enclosed. ____ to cover the above fees. The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 23-3030 . A duplicate copy of this sheet is enclosed. Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038. NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status. SEND ALL CORRESPONDENCE TO: WOODARD, EMHARDT, MORIARTY, MCNETT & HENRY LLP Bank One Center/Tower, Suite 3700 James B. MYERS Jr. 111 Monument Circle NAME Indianapolis, Indiana 46204 US 42.021 REGISTRATION NUMBER

Page 2 of 2

FORM PTO-1390 (REV. 12-2004)



TRANSMITTAL LETTER TO THE UNITED STATES RECEIVING OFFICE

| Date | 30 June 2003 1 0 0 2 4 |
|-------------------------------|------------------------|
| International Application No. | 107-517021 |
| Attorney Docket No. | 525PUR157 |

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| I. Certification under 37 CFR 1.10 (if applicable) | | | | | | | | | | | | |
| EV 334084113 US | | | |] | 30 June 2003 | | | | | | | |
| | | E | xpress Mail ma | iling number | | | | | Date of Dep | osit | | |
| Post Offi | I hereby certify that the application/correspondence attached hereto is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to Mail Stop PCT, Commissioner for | | | | | | | | | | | |
| Patents, PO Box 1450, Alexandria, VA 22313-1450. | | | | | 1 | Lesli | e Curry | , | | | · ···································· | \neg |
| - | Sic | natur | e of person mail | ing correspondence | 1 | Typed or printed name of person mailing correspondence | | | | | | |
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| 11. | <u> </u> | | International A | | | | | | | | | |
| | TIT | | | NANOMATERIALS A | | | | | | rliest priori Day/Month/ | | |
| | | - [| FOR DETEC | TION OF BIOLOGIC | CAL MATERIALS | | | | <u>`</u> | | 28.06.02) | |
| | L | | | | | | | | L | | | - 4 |
| | | SCRE | ENING DISCL | OSURE INFORMATION ning whether a license f | : In order or foreian | to assist i transmittal | n screer should | ning the ac and could | companying be granted | internation of and for o | onai application ther purposes | n for , the |
| | | follow | ring information | is supplied. (Note: check disclosed was not made | as many b | oxes as ap | ply): | | _ | | | |
| | A. B. | H | | ior U.S. application relati | | | | | | | | |
| | c. | 님 | The following | prior U.S. application(s) | contain sub | iect matter | which is | s related to | the inventio | n disclose | d in the attache | ed |
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| | | lication discription of the second se | | 10/373,609 | | filed on | _ | 2 | | | | |
| | <u> </u> | licatio | | 10/373,600 | | filed on | | 24 February 2003 24 February 2003 | | | | |
| | D. | | The present | international application | contains | additional | subject | matter not | found in | the prior | U.S. application | on(s) |
| | • | | identified in pa | aragraph C. above. The a | additional s | ubject matt | ter is fou | nd on page | s ithrough | thout the | <u>application</u> | 1 |
| | | | and DOE which would | S NOT ALTER MIG | ation to ha | NSIDEREL | made av | railable for | inspection | by the ar | opropriate defe | ense |
| | | | | er 35 U.S.C. 181 and 37 | | | | | | | | |
| III. | | AR | esponse to an | Invitation from the RO/I | JS. The foll | owing doc | ument(s) |) is (are) en | closed: | | | |
| | A. | | A Request for | An Extension of Time to | File a Res | ponse | | | | | | |
| | В. | | A Power of At | tomey (General or Regu | lar) | | | | | | 411 . | |
| | C. | | Replacement | pages: | | | | | | | | |
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| | D. | | pages Submission of | Priority Documents | Of the Cian | | | ر. | | | | |
| - | | | Priority docur | nent | | | | Priority o | locument | - | | \neg |
| | E. | | Fees as speci | fied on attached Fee Cal | culation sh | eet form P | CT/RO/1 | 01 annex | | | | |
| IV. | | A R | equest for Rect | ification under PCT 91 | | A Petition | | A Seque | nce Listing | Diskette | | |
| V. | | Oth | er (nlease specif | (بر). | | | | | | | | |
| V. Cher (please specify): | | | | | | | | | | | | |
| Applicant James B. MYERS Jr. | | | | | | | | | | | | |
| The personal signing the | | V | Attorney/Age | ent (Reg. No.)42,021 | Typed name of signer | | | | | | | |
| form is the: Common Representative | | | presentative · | James B. Mysos G | | | | | | | | |
| DTO 129 | | | ļ <u>.</u> | F 2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 | \bot | | C Door | | nature | Catent and | Trademark Of | fice |

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PCT

FEE CALCULATION SHEET Annex to the Request

| For | receiving Office use only |
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| 10/ | 217021 |
| nternational Application | on No. |

| Applicant's or agent's file reference | 525PUR157 | Date stam | p of the receiving Office | |
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| Applicant PURDUE RESEARCH | FOUNDATION, et al. | | | |
| CALCULATION OF PRES | CRIBED FEES | | 040 🖼 | |
| 1. TRANSMITTAL FEE . | | <u>L</u> | 240 T | |
| 2. SEARCH FEE International search to be (If two or more International search, indicate the name of | carried out by US Searching Authorities are competent to can the Authority which is chosen to carry out to | rry out the internat | 450 S tional tarch.) | |
| 3. INTERNATIONAL FEE Basic Fee | | | | |
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| of the receiving Office so p | permit) Authorization to charge any definition the total fees indicated above. | iciency | Name: James B. MYERS | S Jr. |
| | the fee for priority document. | | Signature: James B | B. Myssly |
| orm PCT/RO/101 (Annex) (Ja | anuary 2002) | | See Note | s to the fee collculation shee |